Amir Hamza

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EDUCATION

Brooklyn College, City University of New York (CUNY)   *Expected Graduation: Dec 2025*
Bachelors of Science in Computer Science

SKILLS

Languages *Proficient* JavaScript(3yrs) · Java(3yrs) *Intermediate* Python(1yr) · SQL(2yrs) *Beginner* PHP(1yr) · C++(1yr)
Software AWS · GCP · Langchain · Docker · Kubernetes · TensorFlow · JupyterNotebook · iOS · Bootstrap · Git · Bash

EXPERIENCE

Software Engineering Intern   *Dec 2024 - Present*
New Business Set-Up Inc   *New York, NY*
- Currently developing OCR software and AI features to streamline and automate tax return preparation processes
- Set up and maintained a private, secure server, enabling multi-device access and collaboration
- Secured tax data for 3,000+ clients with a custom Robocopy script for backup and synchronization
- Resolved a system lockout issue by leveraging Hiren Boot CD, restoring and securing system access
- Developing custom software to organize invoice tracking and generation, replacing an inefficient manual system

Software Engineering Resident   *Sep 2024 - Present*
Headstarter   *New York, NY*
- Built 14+ machine learning, ai-engineering and full-stack projects in fast-paced software team environments
- Developed 5+ neural networks in Python, 11 apps in Typescript on AWS/Vercel with dev and production environments
- Implemented llm-chaning, hyperparameter tuning, fine tuning on 10+ LLM models controlling for latency & accuracy,
- Coached by Google Machine Learning, Google Kubernetes, Two Sigma, Tesla, Figma and Citadel Engineers
- Created 321+ commits on github with 7-day deadlines getting a Career Capital increase of 40% from start date

Software Engineering Intern   *Jun 2024 - Nov 2024*
The Difference   *New York, NY*
- Optimized data parsing in Dart/Flutter, ensuring accurate API retrieval for weight measurements
- Led a team to improve backend systems using PHP/Laravel, enhancing API efficiency for weight tracking
- Improved data validation, debugging, and error handling to ensure reliable weight tracking features

AI PROJECTS

US-Bank Churn Prediction | Published Web-App *(~30 hours)* - Github   *Oct 2024 - Oct 2024*
- Used 30k+ data set, Llama 3.1b, Groq and Vercel to evaluate accuracy of predicting when banking customer quits
- Created an end-to-end solution complete with sending automated personalized email to banking customer based on feature engineering, normalization, model training, evaluating and hyperparameter tuning across 5 LLM models

Brain Tumor Classification | Published Web-App *(~10 hours)* - Github   *Nov 2024 - Nov 2024*
- Used neural networks in Python to classify 1000 MRI scans into 3 types of possible brain diseases with custom model
- Generated multimodal MRI reports for neurosurgeons in under 200MS after image classification, construction & training

StockView | Published Web-App *(~30 hours)* - Github   *Dec 2024 - Dec 2024*
- Built a web app leveraging NLP, LLM chaining, and pinecone embeddings to provide intelligent insights on company stocks, enabling users to query stock data using natural language
- Streamlined stock data processing with multithreaded Python scripts and optimized Pinecone database performance for faster retrieval and improved financial analysis

Discord Live Video | Published Web-App 1.6K Users *(~40 hours)* - Github   *Nov 2024 - Nov 2024*
- Used AWS, WebRTC, React and Vercel to deploy real-time chat and video functionality of popular gaming service
- Built 2+ production backend services that handle upto 10 real-time conversations processing 100GB of video every second

Cheetcode - AI Technical Interview Prep | Team Project - Published AI-App *(~80 hours)* - Github   *Aug 2024 - Sep 2024*
- Designed and implemented core features, including algorithm filtering, mock interviews with real-time AI feedback, and an optimized multi-language coding environment
- Integrated Piston API for code compilation, implemented a request delayer to prevent rate limits, and enhanced AI prompts to deliver context-aware feedback simulating real interviews

Activities

CUNY Tech Prep Web Development Fellowship   *Jul 2023 - Jun 2024*
PerScholas Full-Stack SWE Bootcamp   *Sep 2022 - Jan 2023*
Olostep Hackathon Top 10 Team - Github   *Aug 2024 - Aug 2024*